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1. INTRODUCTION

1.1. Technical specifications

Data transfer	- PCI 2.1 bus
Audio processor	- CMI-8738-LX
Audio quality	- CD and Pro Audio quality - 16-bit, mono/stereo 4kHz to 48kHz in full duplex
Game compatibility	- Sensaura based 3D positional audio with support for Microsoft DirectSound 3D, EAX 1.0, EAX 2.0, A3D 1.0, I3DL2, MacroFX, MultiDrive, ZoomFX and EnvironmentFX
Audio compatibility	- Microsoft DirectSound and DirectMusic - Dolby Surround and Dolby Digital
MIDI	- GM (General MIDI) compatible

1.2. Minimum system requirements

- Intel Pentium MMX 233MHz or AMD-K6 and higher or compatible
- PCI 2.1 slot
- 64MB RAM
- CD-ROM or DVD-ROM drive
- Microsoft Windows 98 SE and later

1.3. Package contents

- Gamesurround Muse 5.1 DVD PCI sound card
- Installation CD-ROM containing:
 - Microsoft Windows 98 SE, Millennium, 2000 and XP drivers
 - Electronic documentation (Gamesurround Muse 5.1 DVD and PowerDVD, depending on the version of your card)
 - Software suite:
 - PowerDVD 4.0 XP 6CH (depending on the version of your card)
 - Hercules MediaStation II
 - Acid Xpress 2.0
- User Manual

2. HARDWARE INSTALLATION

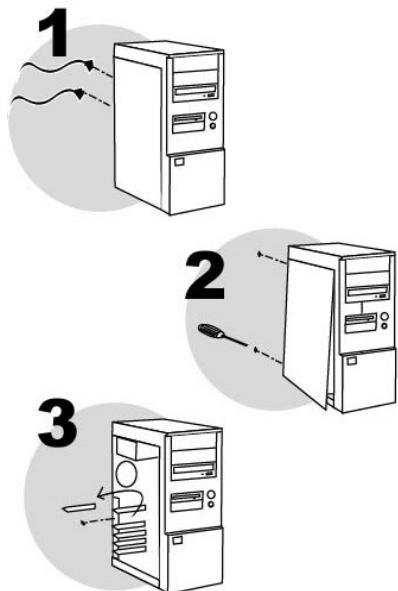
2.1. Uninstalling existing sound card drivers

If your computer is already equipped with a sound card, you must remove all existing drivers to avoid any subsequent conflict between old and new drivers!



Some sound cards are integrated into your PC motherboard and cannot therefore be physically uninstalled. Contact your PC manufacturer for details on how to disable these chipsets.

2.2. Installing the card



Switch off the PC and any peripherals such as the monitor or printer.

1. Unplug the power supply cable(s).
2. Remove the PC cover (for further information, consult your PC manual).
3. If a sound card has not been previously installed, unscrew the slot cover corresponding to the appropriate PCI slot and remove it.
If your PC already has a sound card, remove it, keeping the screw which attached the previous card.

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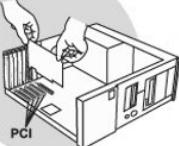
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Static electricity can severely damage electronic components. Before removing the card from its plastic bag, touch the metallic back plate of your PC with your hand to discharge any static electricity from your body.

- Do not touch the printed circuits on the card.
- Do not let anybody else hold the card.
- Do not let your clothes touch any of the components.

4**5**

4. Insert your sound card into its slot, pushing firmly on the card to make sure it is properly fixed in place.
5. Screw the card bracket into position on your computer chassis.
6. Connect your CD-ROM / DVD-ROM drive to your sound card by connecting the audio cable (not supplied) to the **J3** or **J4** internal connector on your card (depending on the type of audio cable supplied with your drive – see point ⑦ of illustration on p.11).
7. Replace the PC cover and reconnect the power supply cable(s).

3. SOFTWARE INSTALLATION

Once your sound card has been installed, switch your PC back on. Because the configuration of the card is Plug and Play, Windows will automatically detect its presence.

N.B.: your installation screens and procedure may vary slightly from those described in this manual.



Because drivers are constantly being developed, the driver provided on your CD-ROM may not be the most recent version. You can visit the Hercules website (www.hercules.com) to verify this and, if necessary, download the very latest version.

3.1. Driver installation

3.1.1. Driver installation for Windows 98 SE



Windows will display an **Add New Hardware Wizard** dialog box informing you that the system has found a **PCI Multimedia Audio Device**.

- Insert the installation CD-ROM into your CD-ROM drive.
- Click on **Next**.

The wizard will suggest a **Search for the best driver for your device. (Recommended)**.

- Click on **Next**.

The wizard will ask you for the path of the driver.

- Enable the **Specify a location** option.
- Type **D:\DRIVERS** (or replace D with the drive letter used on your computer).
- Click on **Next**.

The wizard will then display the name of your sound card.



- Click on **Next** to start the driver installation. (Please have your Windows 98 SE CD-ROM handy before commencing installation. You may be prompted to insert it during driver installation.)
- Click on **Finish** to complete the setup.
- Reboot your computer in order to display the mixer icon  in the Windows taskbar.

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3.1.2. Driver installation for Windows Millennium



Windows will display an **Add New Hardware Wizard** dialog box informing you that the system has found a **PCI Multimedia Audio Device**. The wizard will suggest an **Automatic search for a better driver (Recommended)**.

- Insert the installation CD-ROM into your CD-ROM drive.
- Click on **Next**.
- Click on **Finish** to complete the setup.
- Reboot your computer in order to display the mixer icon  in the Windows taskbar.

3.1.3. Driver installation for Windows 2000



Windows will display a **Found New Hardware Wizard** dialog box.

- Click on **Next**.
- The wizard will suggest a **Search for a suitable driver for my device (recommended)**.
- Click on **Next**.



The wizard will then prompt you to designate an optional search location.

- Enable the **CD-ROM drives** option.
- Insert the installation CD-ROM into your CD-ROM drive.

If the Gamesurround Muse 5.1 DVD installation menu appears:

- Close it by clicking on .
- Click on **Next**.

Windows will then specify the path and name of the folder where the drivers are located.

- Click on **Next** to continue the driver installation.



Windows may display the **Digital Signature Not Found** dialog box.

- Click on **Yes**.
- Click on **Finish** to complete the setup.
- Reboot your computer in order to display the mixer icon in the Windows taskbar.



To optimize your Gamesurround Muse 5.1 DVD sound card with Windows 2000, we advise you to enable full hardware acceleration. To do this:

- Click on **Start/Settings/Control Panel**.
- Double-click on the **Sounds and Multimedia** icon.
- Select the **Audio** tab.
- Click on **Advanced** in the **Sound Playback** field.
- Select the **Performance** tab.
- Set the **Hardware acceleration** slider to **Full**.
- Click on **Apply/OK** and then click on **OK**.

3.1.4. Driver installation for Windows XP



Windows will display a **Found New Hardware Wizard** dialog box informing you that the system has found a **Multimedia Audio Controller**. The wizard will suggest that you **Install the software automatically (Recommended)**.

- Insert the installation CD-ROM into your CD-ROM drive.

The drivers will be installed automatically after a few seconds.

If the drivers are not installed automatically:

- Click on **Next**.

If the Gamesurround Muse 5.1 DVD installation menu appears:

- Close it by clicking on .

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Windows may display a **Hardware Installation warning**.

- Click on **Continue Anyway**.



- Click on **Finish** to complete the setup.

- Reboot your computer in order to display the mixer icon  in the Windows taskbar.

3.2. Applications installation



- Insert the installation CD-ROM into your CD-ROM drive.

The installation menu automatically appears, containing all the different options available.

If the installation menu is not launched automatically:

- Double-click on **My Computer**.
- Double-click on the .

- Simply select each element you wish to install and follow the on-screen instructions to install them.

	<p>DirectX You can install DirectX to take advantage of all the latest innovations from the world of 3D sound.</p>
	<p>Adobe Acrobat Reader Acrobat Reader allows you to view, navigate and print documents in PDF format.</p>

Manuals	<p><i>Electronic documentation</i></p> <p>Install the electronic version of the Gamesurround Muse 5.1 DVD manual on your PC, as well as the PowerDVD* user manual.</p> <p>Once installed, access this manual by clicking on:</p> <ul style="list-style-type: none"> - Start/Programs/Hercules/Gamesurround Muse 5.1 DVD/User Manual. - Start/Programs/Hercules/PowerDVD/User Manual. <p>*depending on the version of your card</p>
PowerDVD™ 4.0	<p>PowerDVD 4.0 XP 6CH*</p> <p>With Cyberlink PowerDVD, the world acclaimed software DVD player, you will have the ultimate DVD solution to enjoy all the benefits DVD entertainment has to offer!</p> <p>With its high quality video and audio playback, as well as its low CPU consumption, PowerDVD is the number one choice for high quality DVD playback!</p> <p>*depending on the version of your card</p>
Hercules® MediaStation II	<p>Hercules MediaStation II</p> <p>Hercules MediaStation II is a multifunctional software package for easy playback of digital music, videos and pictures*.</p> <p>Hercules MediaStation II enables you to listen to songs and mix or record* different styles of music.</p> <p>With Hercules MediaStation II, the PC user can view digital videos and pictures. The extra option provides the facility to create slide shows using pictures you have just taken with your digital camera!</p> <p>Intuitive and sophisticated, Hercules MediaStation II is destined to become your favorite everyday software companion!</p> <p>*See your electronic documentation or options window for a list of supported formats.</p>
Acid™ Xpress	<p>Acid Xpress 2.0</p> <p>Acid Xpress is Sonic Foundry's loop-based multi-track music creation tool. Make your own original music with the click of a mouse and a couple of paint strokes. Combine music and sound loops to create professional-quality music instantly (25 free loops included).</p>

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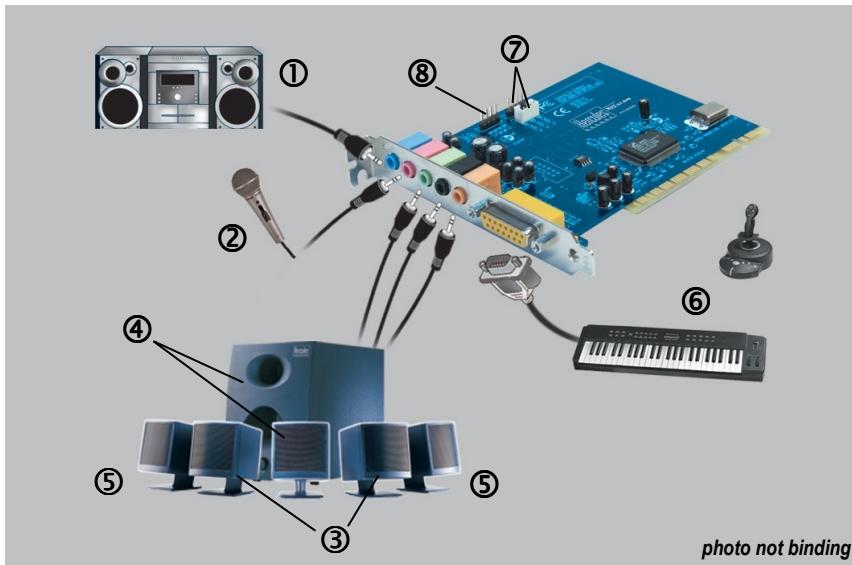
If you have aborted the installation procedure, the following instructions will launch the installation menu again:

- Double-click on **My Computer**.

- Double-click on the  icon.

Log on now to our website (www.hercules.com) to download the latest drivers and software, consult the list of Frequently Asked Questions (FAQ) relating to your sound card and take advantage of user manual updates. You can also have a look at the complete range of Hercules products and find out about forthcoming releases.

4. CONNECTORS



- ① Hi-fi (for example): connect to the **Line in** stereo input
- ② Microphone: connect to the **Mic in** input
- ③ Front speakers: connect to the **Front out** output (headphones can also be connected to this output)
- ④ Center speaker and subwoofer: connect to the **Center/LFE** output
- ⑤ Rear speakers: connect to the **Rear out** output
- ⑥ Joystick, gamepad, wheel or MIDI keyboard: connect to the **MIDI/GAME** port (MPU-401)
- ⑦ CD-ROM or DVD-ROM drive: connect to the **J3** or **J4** internal connector (depending on the type of audio cable supplied with your drive)
- ⑧ **J6** internal auxiliary connector

Note: connect additional devices (joystick / gamepad / wheel / MIDI keyboard) simultaneously to your card's **MIDI/GAME** port (⑥) using a Y-cable (not supplied).

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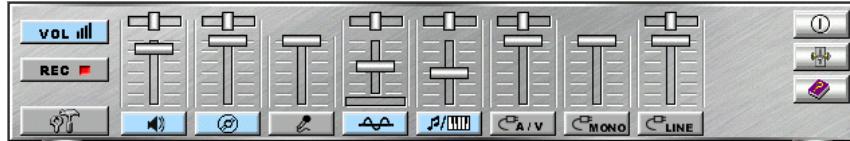
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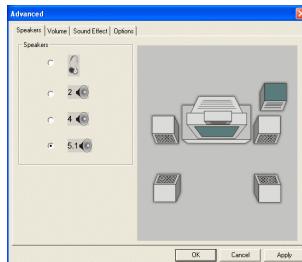
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5. SOUND CARD CONFIGURATION

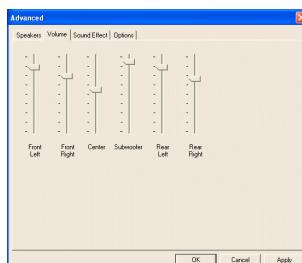
Click on the  icon in the taskbar to display the Gamesurround Muse 5.1 DVD mixer, with which you can adjust the default listening volume () and recording level () of each sound source.



- Click on  to set the advanced audio properties.

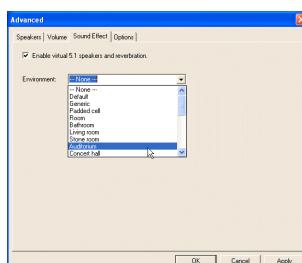


- First, select your audio configuration in the **Speakers** tab (headphones, 2 speakers, 4 speakers or 5.1 channel speaker system).



- Select the **Volume** tab.

- Adjust the volume of each speaker, as necessary.



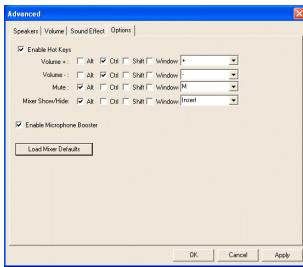
- Select the **Sound Effect** tab.

- Enable the **Enable virtual 5.1 speakers and reverberation** option to enjoy 5.1 channel sound when listening to digital audio files (MP3 and WMA formats), audio CDs (if the digital playback function is enabled – see section 6), and in games.

- You can spice up sound effects by selecting a sound environment from the **Environment** list.

- Click on **Apply** to apply the sound of the chosen environment.

The tone of the sound is modified (more echo, more muffled sound, etc.).



- Select the **Options** tab.

- The **Enable Hot Keys** option allows you to assign hotkey shortcuts to the following functions: increase volume, decrease volume, mute a source, show / hide the Gamesurround Muse 5.1 DVD mixer.

- Select a combination of keys for each command: [Alt], [Ctrl], [Shift] and/or [Esc] in conjunction with the key of your choice (to be selected from the drop-down list).

- The **Enable Microphone Booster** option increases the sensitivity of your microphone by 20dB, boosting its performance.

- The **Load Mixer Defaults** button allows you to restore the mixer to its default settings (advanced audio properties are not affected by this reinstallation).

Click on **Apply/OK** to apply the advanced properties.

6. AUDIO CD PLAYBACK

To enjoy 5.1 channel sound when listening to audio CDs, make sure that:

- the **Enable virtual 5.1 speakers and reverberation** option is enabled (see section 5).
- the digital playback function is enabled for your CD-ROM / DVD-ROM drive. To do this:

Under Windows 98:

- Click on **Start/Settings/Control Panel**.
- Double-click on the **Multimedia** icon.
- Select the **CD Music** tab.
- Enable the **Enable digital CD audio for this CD-ROM device** option.
- Click on **OK**.

Under Windows Millennium:

- Click on **Start/Settings/Control Panel**.
- Click on **View all Control Panel options** if necessary.
- Double-click on the **System** icon.
- Select the **Device Manager** tab.
- Select your CD-ROM / DVD-ROM drive in the **CDROM** section.
- Click on **Properties**.
- Select the **Properties** tab.
- Enable the **Enable digital CD audio for this CD-ROM device** option.
- Click on **OK**.

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Under Windows 2000:

- Click on **Start/Settings/Control Panel**.
- Double-click on the **System** icon.
- Select the **Hardware** tab.
- Click on **Device Manager**....
- Select your CD-ROM / DVD-ROM drive in the **DVD/CD-ROM drives** section.
- Click on **Action/Properties**.
- Select the **Properties** tab.
- Enable the **Enable digital CD audio for this CD-ROM device** option.
- Click on **OK**.

Under Windows XP:

- Click on **Start/Control Panel**.
- Click on **Switch to Classic View** if necessary.
- Double-click on the **System** icon.
- Select the **Hardware** tab.
- Click on **Device Manager**.
- Select your CD-ROM / DVD-ROM drive in the **DVD/CD-ROM drives** section.
- Click on **Action/Properties**.
- Select the **Properties** tab.
- Enable the **Enable digital CD audio for this CD-ROM device** option.
- Click on **OK**.

If your CD-ROM / DVD-ROM drive does not automatically play your audio CD when you insert it under Windows 98 SE / Millennium, enable the **Auto insert notification** option. To do this:

- Click on **Start/Settings/Control Panel**. (Under Windows Millennium, click on **View all Control Panel options** if necessary.)
- Double-click on the **System** icon.
- Select the **Device Manager** tab.
- Select your CD-ROM / DVD-ROM drive in the **CD-ROM** section.
- Click on **Properties**.
- Select the **Settings** tab.
- Enable the **Auto insert notification** option.
- Click on **OK/Close** and reboot your computer.

Note: this option is automatically configured under Windows 2000 / XP.

7. TECHNICAL SUPPORT

Before you contact us (*), please have the following information/items ready:

- Product name,
- Date of purchase of your product,
- Your full system configuration details: processor type, memory, operating system,
- Pen and paper.

Please have your computer switched on and ready at the point where you have encountered a problem.

7.1. If you need to return a product

Hercules offers a standard 3 year parts & service warranty (2 years in OEM version).

1. To return a product for factory service, contact a Hercules technical support representative at the phone number corresponding to the country you live in (*).
 - **In the United Kingdom:** before taking any action please contact our Technical Support Dept. on **020 7216 0047** or by email at **hercules.uk@guillemotsupport.com** who will be able to advise you as to the best possible solution.
 - **In Continental Europe, Australia and New Zealand:** after receiving confirmation from our technical support service (*) that your product is defective, please follow the instructions we provide to have your product replaced.
 - **In the USA and Canada:** refund policies apply to products purchased directly from Hercules (30 days).
2. When returning the product, be sure to include all materials, such as the manual(s), connection cable(s), installation CD(s) and the product packaging box. **Note: only packages that have been assigned an RMA (Return Merchandise Authorization) number by a technical support agent will be accepted.**

(*) Hotline details are listed at the end of this manual.

7.2. Save time by registering your product online!

In Europe: go directly to our website (www.hercules-uk.com) and click on **Registration**. Registering with us in this way will simplify the process if you ever need to contact our technical support team. If you wish, you can also be added to our priority mailing list to receive information about our new Hercules products and our latest special offers.

In the USA and Canada: all customers should register online at our web site. Just visit us.hercules.com, click on **Support/Drivers**, select your product and click on **Registration**. You will be added to the mailing list to receive upgrade information, information on new products and special offers.

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Declaration of conformity

EC COMPLIANCE NOTICE: this equipment has been tested and found to comply with the limits of the Council Directive 89/336/EEC of 3 May 1989 on the approximation of the laws of the Member States relating to electromagnetic compatibility, amended by Directive 93/68/EEC. The audio translator has been tested and found to comply with EN 50081-1 /1992: EN55022, EN 50082-1 /1997: EN61000-4-2/-3/-8, EN 50204. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CANADIAN COMPLIANCE NOTICE: this Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

USA COMPLIANCE NOTICE: this equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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End-user software license Agreement

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5. Except where the present Agreement expressly permits, the licensee is strictly prohibited from engaging in, nor may he permit third parties to engage in, the following: providing or disclosing the Software to third parties; providing use of the Software in a network, multiple PCs, multi-user or time-sharing arrangement where the users are not individual licensees; making alterations or copies of any kind of the Software; making any attempt to disassemble, de-compile or reverse engineer the Software in any way or form, or engaging in any activity aimed at obtaining underlying information not visible to the user during normal use of the Software; making copies or translations of the User Manual.

Warranty

Gamesurround Muse 5.1 DVD comes with a standard 3 year parts and labor warranty from the date of purchase (2 years in OEM version). Hercules Technologies' entire liability and your exclusive remedy is limited to the replacement of defective products. In no event shall Hercules Technologies be liable to you or any third party for direct or indirect consequential, incidental or special damages which you may incur as a result of using the software, including, but not limited to, loss of data, or information of any kind, that you may experience.